# CAFO FACILITY INSPECTION REPORT

OFFICE NO: PCA SYSTEM TASK NO:

INSPECTOR(S): Jared Richardson (PG Environmental, LLC) and Anthony D'Angelo (PG Environmental, LLC)

## FACILITY INFORMATION

| | | |
|---|---|---|
| **8365978001**<br>WDID NUMBER | **James Jongsma**<br>OWNER NAME | **James & John Jongsma Dairy**<br>FACILITY NAME |
| **CAG018001**<br>NPDES NUMBER | **Ex. 6 Personal Privacy (PP)**<br>OWNER ADDRESS | FACILITY ADDRESS |
| **R8-2007-0001**<br>RWQCB ORDER NO. | **Pixley, CA 93256**<br>OWNER CITY AND STATE | **Ontario, CA 91762**<br>FACILITY CITY AND STATE |
| _____<br>SCHEDULED INSPECTION DATE | **James Jongsma**<br>OWNER CONTACT | **Brian Jongsma**<br>FACILITY CONTACT |
| **03/06/2013**<br>ACTUAL INSPECTION DATE | **Ex. 6 Personal Privacy (PP)**<br>OWNER PHONE NO. | FACILITY PHONE NO. |
| **Unknown**<br>RECEIVING WATER | **Ex. 6 Personal Privacy (PP)**<br>FACILITY LATITUDE | FACILITY LONGITUDE |

## INSPECTION TYPE

- ☐ (A1) "A" type compliance -- (EPA Type S)
- ☒ (B1) "B" type compliance -- (EPA Type C)
- ☐ (02) Noncompliance follow-up - Correction of a previously identified violation
- ☐ (03) Enforcement follow-up - Enforcement action is being met
- ☐ (04) Complaint - Complaint
- ☐ (05) Pre-requirement
- ☐ (06) Miscellaneous

_____ (Type) NOTE: If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

| | |
|---|---|
| No | Was the inspection pre-announced? |
| Yes | Were potential violations noted during this inspection? |
| No | Was this a quality assurance-based inspection? |
| No | Were bioassay samples collected? |
| No | Were water quality samples collected? |

## INSPECTION SUMMARY

**The overall Facility rating, on a 1 (Unreliable) to 5 (Very Reliable) scale, was determined to be: 3 = Satisfactory.**

**James and John Jongsma Dairy (hereinafter, Facility) was rated "Satisfactory" due to the following items:**

- **Depth markers were not installed in basin Nos. 1 and 2 (refer to Photos 2 and 3)**
- **The depth marker in lagoon No. 1 did not contain depth measurement markings (refer to Photos 4 through 7)**
- **Daily inspections of all ponds, berms, and wastewater distribution and application equipment was not conducted or documented**
- **The Engineered Waste Management Plan (EWMP) was not retained onsite or available for review at the time of the inspection**
- **The EWMP was not fully implemented onsite at the Facility**
- **Vegetative growth was observed in lagoon No. 1 (refer to Photos 4 through 7)**
- **Accumulated solids were observed in disposal field No. 2 (refer to Photos 10, 11, and 12)**

## INSPECTOR DATA

INITIALS ADJ/JCR SIGNATURE _____ DATE 3/06/2013

CIWQS DATA ENTRY DATE: _____ REGIONAL BOARD FILE NUMBER: _____

FOR INTERNAL USE: REVIEWED BY: (1)_____ (2) _____ (3) _____

REPORT PREPARED BY: Anthony D'Angelo (PG Environmental, LLC) ON 03/19/2013

## EPA SUGGESTED INSPECTION CHECKLIST

| | | | |
|---|---|---|---|
| ☒ Permit | ☐ Flow Measurement | ☐ Pretreatment | ☒ Operations & Maintenance |
| ☒ Records/Reports | ☐ Laboratories | ☐ Compliance Schedules | ☐ Sludge Disposal |
| ☒ Facility Site Review | ☐ Eff/Receiving Waters | ☐ Self- Monitoring | ☐ Other |

## POTENTIAL VIOLATIONS

1. Depth markers were not installed in basin Nos. 1 and 2 as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 (refer to Photos 2 and 3).

Description of Potential Violation: **Refer to Item No. 1 of the 'Inspection Observations' section of this report for additional details.**

2. The EWMP was not retained onsite or available for review at the time of the inspection as required by Provision VII.C.3.c of the Permit.

Description of Potential Violation: **Refer to Item No. 1 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

3. The EWMP had not been fully implemented onsite at the Facility at the time of the inspection as required by Provision VII.C.3.b of the Permit.

Description of Potential Violation: **Refer to Item No. 2 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

4. Vegetation growth was observed in lagoon No. 1 in the central-west portion of the Facility (refer to Photos 4 through 7). The Discharger must design and maintain all containment structures per the EWMP as required by Provision VII.C.3.a of the Permit.

Description of Potential Violation: **Refer to Item No. 1 and No. 2 of the 'Facility Housekeeping, Wastewater, and Manure Information' section of this report for additional details.**

Date of Potential Violation: **N/A**

Date of Potential Violation Determination: **March 6, 2013**

## INSPECTION OBSERVATIONS

On March 6, 2013, a Concentrated Animal Feeding Operation (CAFO) inspection was conducted for Santa Ana Water Board Order No. R8-2007-0001 - 'General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region', NPDES General Permit No. (CAG018001) at James and John Jongsma Dairy in Ontario, California (refer to Photo 1). The inspectors spoke with Mrs. Sierra Jongsma (James and John Jogsma Dairy) at approximately 2:00 PM on March 6, 2013. Mrs. Jongsma informed the inspectors that her husband, Brian Jongsman (Manager, James and John Jongsma Dairy), was working on the north side of the dairy, and gave the inspectors permission to proceed onsite to conduct the inspection. At approximately 2:20 PM, the inspectors met with Mr. Brian Jongsma. Mr. Jongsma declined to participate in the remainder of the site visit, but told the inspectors he would like to have a closing conference at the end of the inspection. The inspectors reviewed inspection records and held a closing conference with Mr. Jongsma at the Facility residance at the conclusion of the inspection. During the closing conference, the inspectors reviewed the preliminary inspection findings with the Facility representative.

The Facility is a 39.2-acre dairy farm with an animal population of approximately 900 milking cows, 150 dry cows, and 180 heifers at the time of the inspection. The Facility topograpy naturally flows from north to south. Process wastewater from the milking barn is piped either east to lagoon No. 2 located in the southern portion of the Facility or northeast into disposal field No. 2. At the time of the inspection, processs wastewater from the milking barn was being piped to disposal field No. 2 for land application (refer to Photos 8 through 11). Mr. Jongsma stated that disposal pipes in field No. 2 are rotated every "couple of days" and that the field was last disked in December 2012 (refer to Photos 10 and 11). Per the EWMP, Basin Nos. 1 and 2 in the northeast corner of the Facility can be utilized for excess process wastewater storage at the Facility; however, Mr. Jongsma stated that the basins are rarely used for process wastewater storage (refer to Photos 2 and 3). Basin No. 3 on the south side of disposal field No. 2 collects excess flow and manure solids from disposal field No. 2 prior to flowing into lagoon No. 2 on the south side of the Facility, adjacent to [redacted] Avenue (refer to Photos 13 through 16). Surface runoff from corral Nos. 1 through 4 flows west/southwest into lagoon No. 1 (refer to Photo 4). Surface runoff from the remainder to the corrals flows south into lagoon No. 2 (refer to Photos 8, 9, and 17, 18, and 19). All lagoons and basins were dry at the time of the inspection. Standing water was observed in disposal field No. 2 and on the south side of basin No. 3, at the time of the inspection (refer to Photos 14 and 15). Mr. Jongsma stated disposal field Nos. 1 and 2 were last disked in December 2012 to enhance infiltration and percolation.

Mr. Jongsma stated that the corrals were last cleaned in Decemeber 2012. A manure stockpile from the most recent corral cleaning event was located in the central-west portion of the Facility, adjacent to disposal field No. 1 (refer to Photo 20). Manure is hauled offsite by multiple trucking companies. The exact disposal location was unknown by Mr. Jongsma at the time of the inspection. Manure tracking manifests are maintained of all haul events at the central Jongsma Dairy office in the California Central Valley. Mr. Jongsma stated that all mortalities are removed from the Facility immediately by Stiles Animal Removal, Inc.

### FACILITY

CAFO Size: **Large** (at time of inspection) | Total Acres: **39.2** | Production Area Acres: **25**

### CONTAINMENT STRUCTURES

Wastewater Lagoons: **2** | Evaporation Ponds: **3** | Catch Basins: **0**

Depth Markers: **2** | Other: **2 disposal fields**

### ANIMALS ONSITE DURING INSPECTION

Milk Cows: **900** | Dry Cows: **150** | Heifers: **180**

Calves: **0** | Other: **2 horses**

### INSPECTION OBSERVATIONS

1. The inspectors observed, during the inspection, that depth markers had not been installed in basin Nos. 1 and 2 located in the northeast, and central-east portion of the Facility to indicate the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event, as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 (refer to Photos 2 and 3).

2. The inspectors observed, during the inspection, that the depth marker installed in lagoon No. 1 did not have measurement markings on the depth marker pole to clearly identify lagoon depth and freeboard (refer to Photos 4 through 7). Mr. Jongsma stated that the lagoon No. 1 depth marker should have depth measurement markings. In addition, he stated that he would evaluate and repair the depth marker to clearly identify depth measurement markings following the inspection.

## ANNUAL REPORT REVIEW

### ANNUAL REPORT

Monitoring Year: **N/A** Reviewed: **No** Signed & Certified: **Unknown**

Submittal Date: **N/A**

### REPORTED ANIMAL POPULATION

Milk Cows: **N/A** Dry Cows: **N/A** Heifers: **N/A**

Calves: **N/A** Other: **N/A**

### MANURE INFORMATION

Amount of manure spread on cropland at the Facility: **N/A**

Amount of manure hauled away from the Facility: **N/A**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address: **Unknown**

## ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

| | |
|---|---|
| Did the inspector review the EWMP in the RWQCB file? | **Yes** |
| Did the Facility have a copy of the EWMP on-site and available for review? | **No** |
| EWMP preparation date: | **July 1, 2002** |
| EWMP prepared by: | **Nolte Associates, Inc.** |
| Santa Ana RWQCB EWMP acceptance date: | **July 16, 2003** |
| EWMP was certified by the Facility's engineer/consultant on: | **Unknown** |

1. The EWMP was not retained onsite or available for review at the time of the inspection as required by the Permit. Mr. Jongsma stated that all Permit records, including the EWMP, are retained at the Jongsma Dairy central office in the California Central Valley. Provision VII.C.3.c of the Permit states "a copy of the accepted Engineered Waste Management Plan (EWMP) for the facility shall be maintained on site and the person in charge of the dairy operation shall be familiar with its content."

2. The EWMP was not fully implemented onsite at the Facility as required by the Permit. Section V - 'Operation and Maintenance' of the EWMP states that "daily inspections should be made upon all ponds, berms, and wastewater distribution and application equipment following the first significant rain event of each winter season. These daily inspections should continue until large rain events cease in the spring." The Discharger was only conducting weekly visual inspections of containment structures at the time of the inspection. As a result, the Discharger was not fully implementing the approved EWMP. Provision VII.C.3.b of the Permit states "the discharger shall develop and fully implement an Engineered Waste Management Plan (EWMP) acceptable to the Executive Officer." The Discharger shall fully implement the EWMP as required by Provision VII.C.3.b of the Permit.

## NUTRIENT MANAGEMENT PLAN (NMP) REVIEW (IF APPLICABLE)

| | |
|---|---|
| Did the Facility have a copy of the NMP on-site and available for review? | **N/A** |
| Date NMP was prepared: | **N/A** |
| NMP prepared by: | **N/A** |
| Santa Ana RWQCB NMP acceptance date: | **N/A** |

1. The Discharger does not apply manure, litter, or process wastewater to croplands under their ownership or operational control; therefore, the Discharger is not required to develop, implement, and retain onsite a Nutrient Management Plan as stated in Provision VII.C.3.d of the Permit.

## FACILITY HOUSEKEEPING, WASTEWATER, AND MANURE INFORMATION

| | |
|---|---|
| Typical Depth of Manure in Corrals (in inches): | **4-6** |
| Estimated Freeboard in Fullest Lagoon (in feet): | **Dry - full capacity** |
| Date of Last Lagoon Solids Removal, per Facility Representative: | **2012** |
| Disposal Location for Lagoon Solids: | **Hauled offsite with manure** |

### CONDITION OF BERMS AND CONTAINMENT STRUCTURES

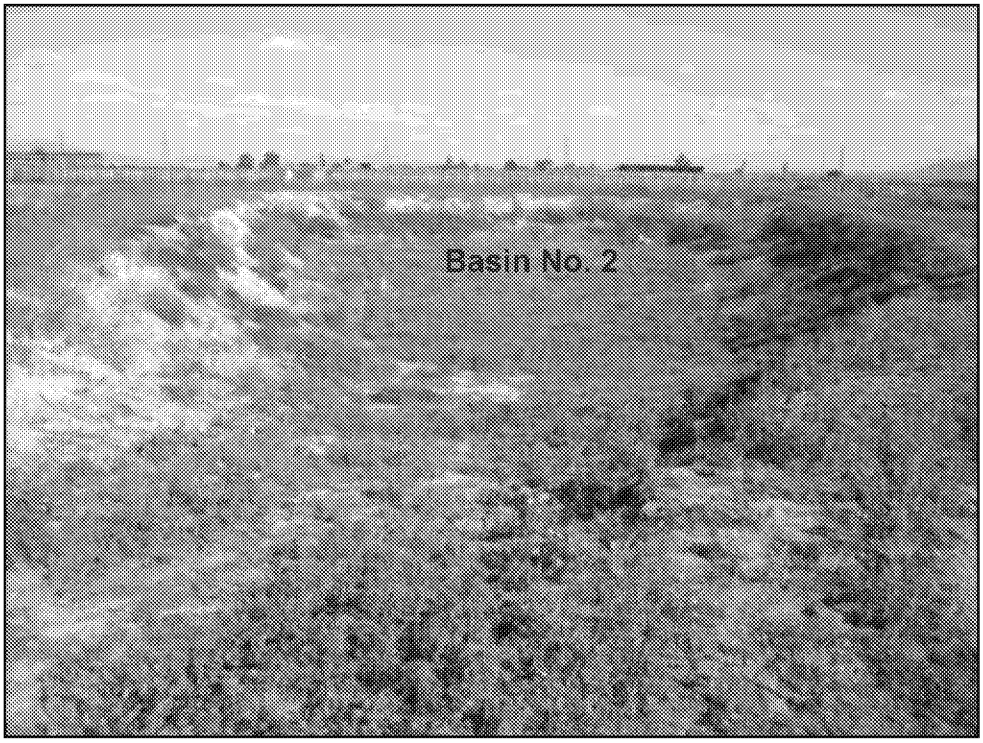
1. The inspectors observed, during the inspection, that vegetation growth potentially affecting the containment structure capacity was present in lagoon No. 1 (refer to Photos 4 through 7). The 'Operation and Maintenance' section of the EWMP states that "weed abatement measures such as pesticides and clearing and grubbing should be used to control weeds in fields, lagoons, wastewater transport channels, and wastewater access paths." As a result, the overall capacity of lagoon No. 1 at the Facility may be diminished. Provision VII.C.3.a of the Permit states that "the discharger shall design, construct, and maintain containment structures to retain all wastewater within the facility, including all process wastewater and all precipitation on, and drainage through, manured areas resulting from rainfall up to and including a 25-year, 24-hour rainfall event." The Discharger must design and maintain all containment structures per the EWMP as required by Provision VII.C.3.a.

2. The inspectors observed, during the inspection, accumulated manure solids in field No. 2 in the central-east portion of the Facility (refer to Photos 10, 11, and 12). Mr. Jongsma stated that the disposal pipes in disposal field No. 2 are moved every couple of days and that the field is ripped as needed. Mr. Jongsma did not identify a field solids cleaning frequency timeframe; however, field Nos. 1 and 2 were last ripped in December 2012. Section V - 'Operation and Maintenance' of the EWMP identifies the 'removal and disposal of accumulated waste solids" as a routine maintenance item. The Discharger must design and maintain all containment structures per the EWMP as required by Provision VII.C.3.a.

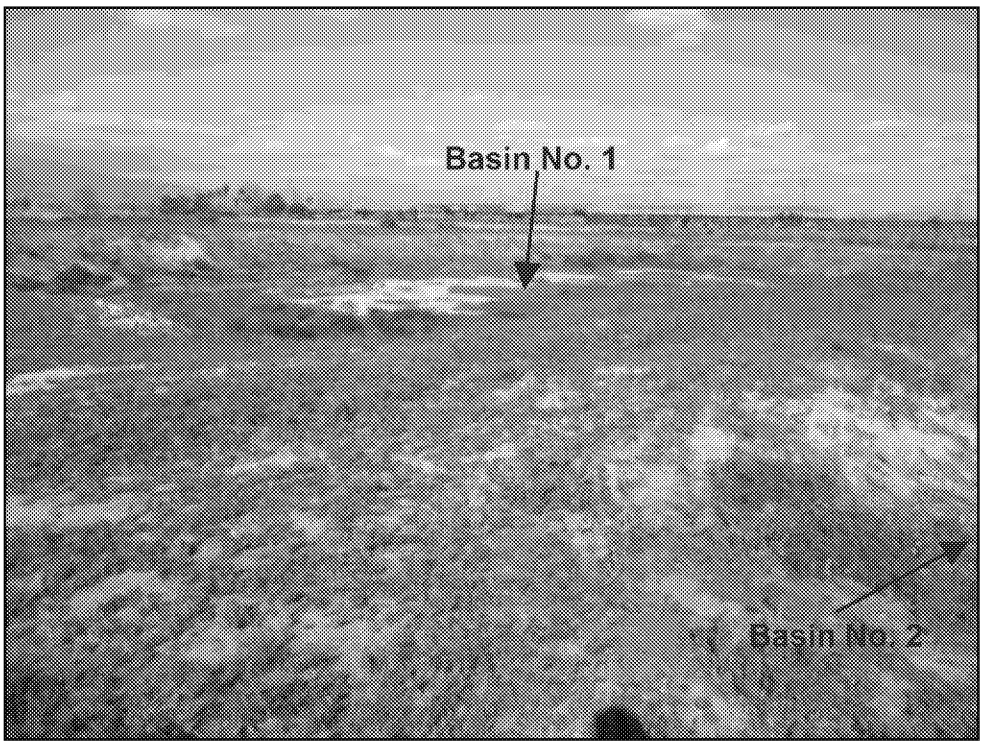
## ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS

1. Verify whether or not depth markers have been installed in basin Nos. 1 through 3
2. Verify whether or not the EWMP is retained onsite
3. Verify whether or not daily inspections are conducted at the Facility during the wet season, per the approved EWMP
4. Verify whether or not the lagoons and basins are free of excessive vegetation growth
5. Verify whether or not process wastewater solids are removed from the fields annually

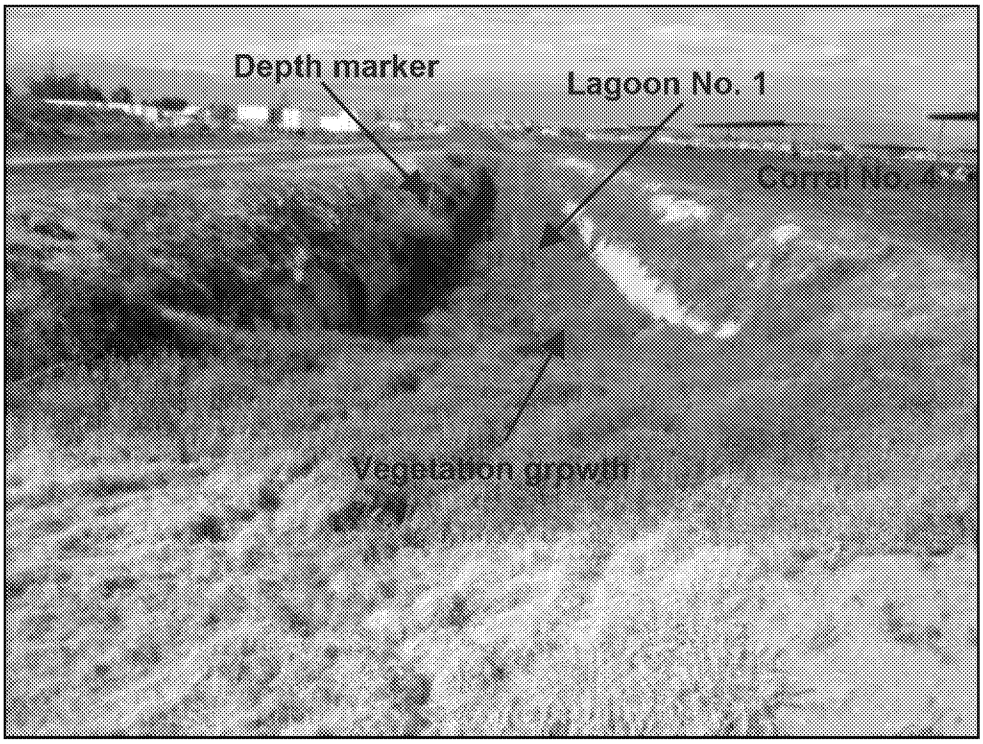
**Photograph 1.** James and John Jongsma Facility sign.




**Photograph 2.** View facing east of basin No. 2. Note the basin did not contain a depth marker.




**Photograph 3.** View facing northeast of basin No. 1. Note the basin did not contain a depth marker.




**Photograph 4.** View facing north of lagoon No. 1. Note the vegetation growth in the lagoon.

**Photograph 5.** View facing east of the depth marker installed in lagoon No. 1. Note the depth marker did not have depth measurement markings. Also note the vegetative growth in the lagoon.

**Photograph 6.** Close-up view of the vegetative growth and depth marker installed in lagoon No. 1. Note the depth marker did not have depth measurement markings.

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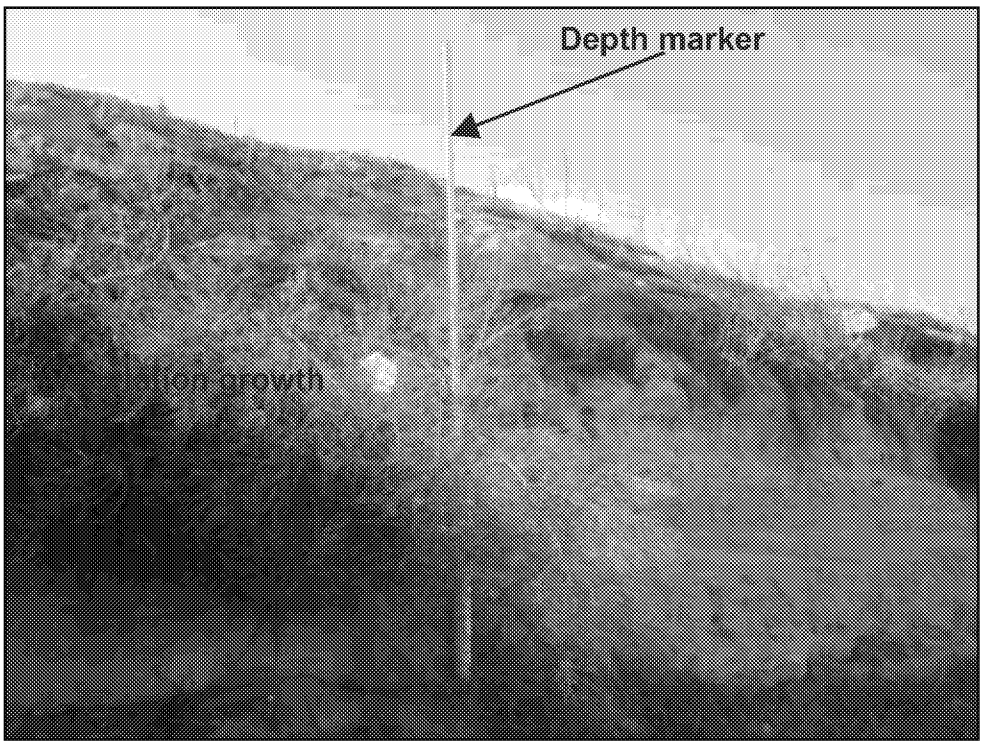
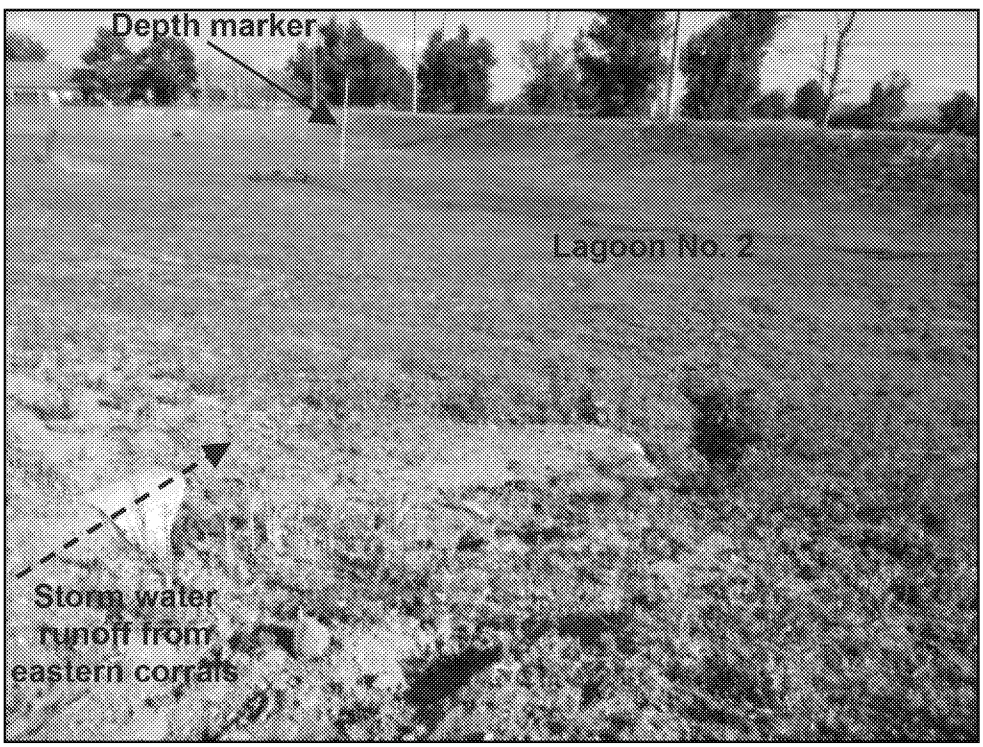
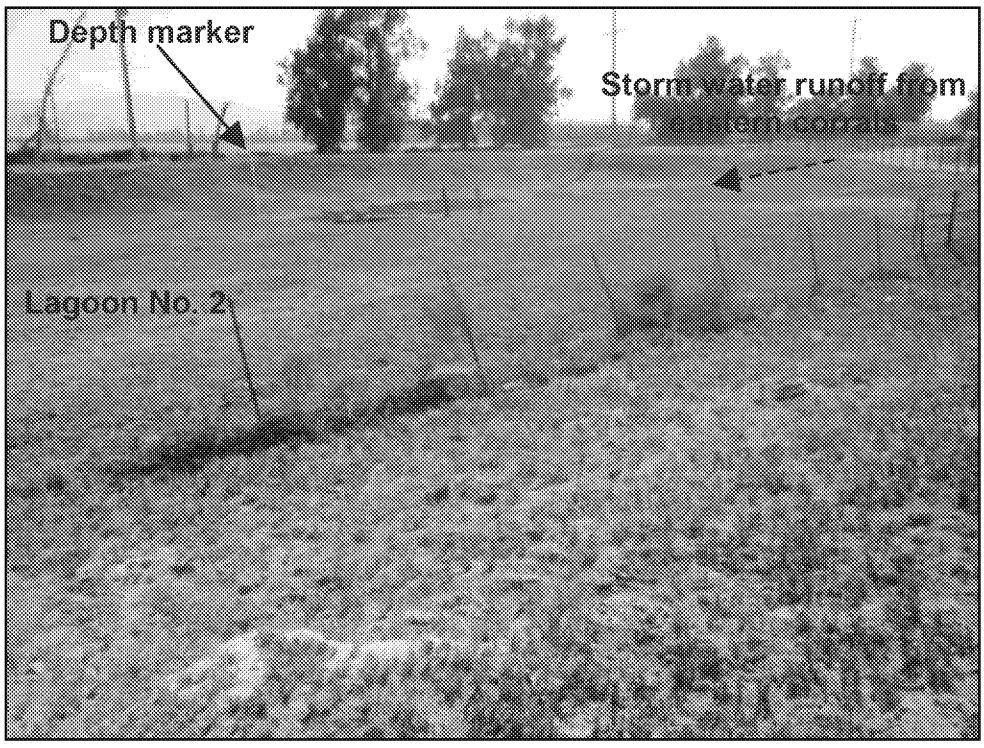


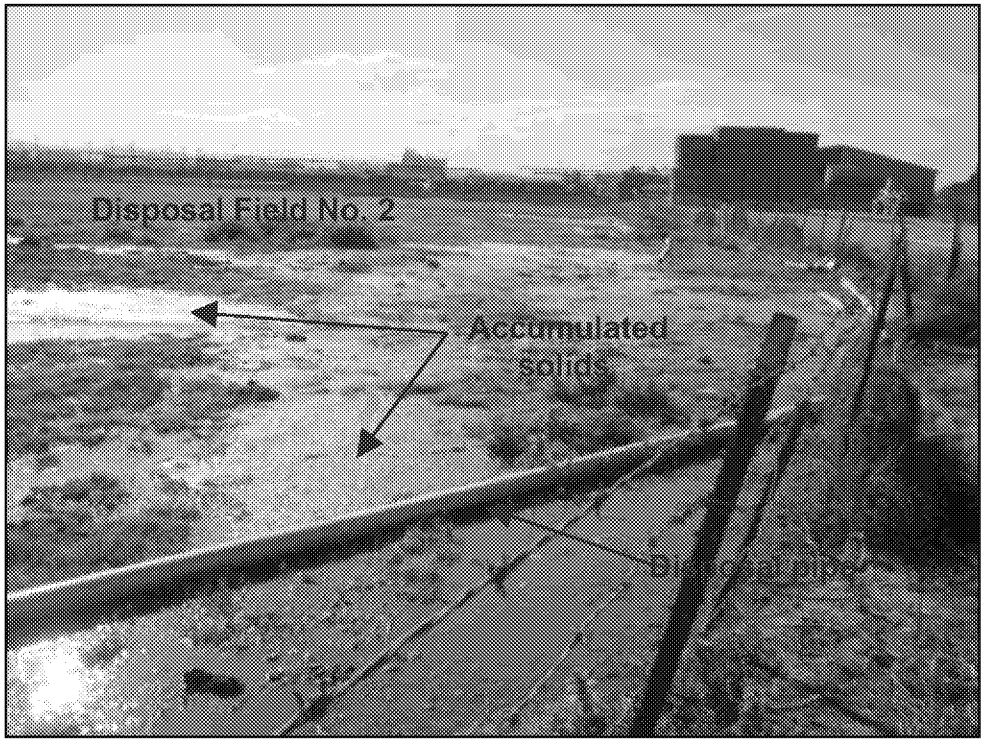

**Photograph 7.** Close-up view facing northwest of the depth marker installed in lagoon No. 1. Note the depth marker did not have depth measurement markings. Also note the vegetative growth on the embankment.




**Photograph 8.** View facing southeast of lagoon No. 2. Note storm water runoff from the eastern corrals enters lagoon No. 2 via a drain pipe from the 'Not Used' corral into the northwestern corner of lagoon No. 2.

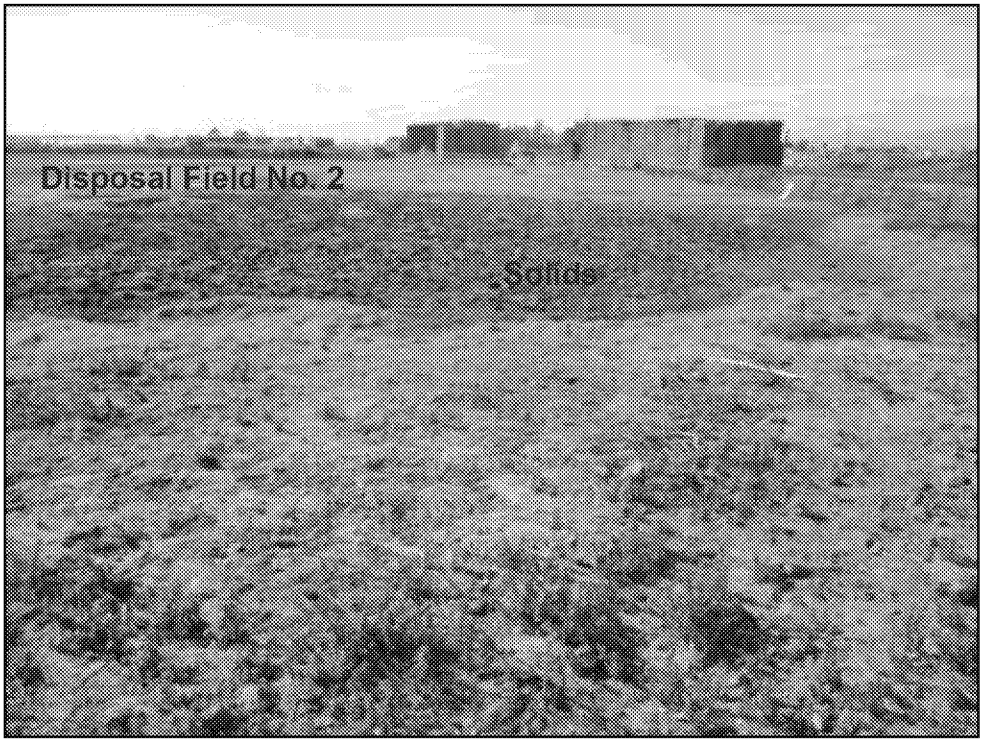



**Photograph 9.** View facing southwest of lagoon No. 2, shown in Photograph 8.

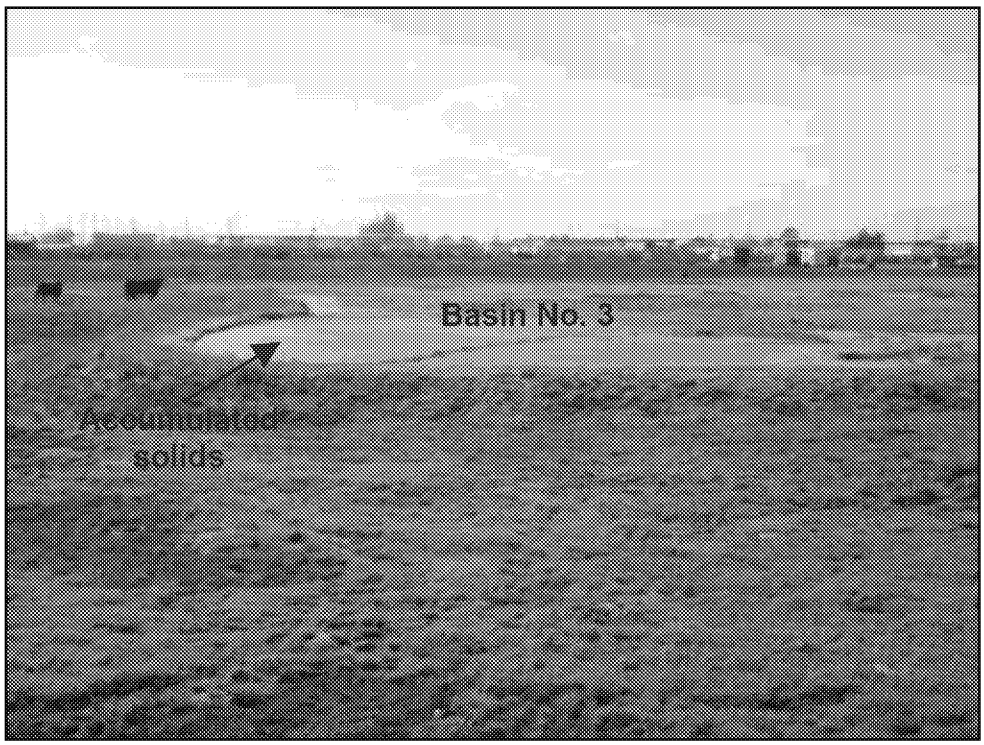



**Photograph 10.** View facing southwest of disposal field No. 2. Note the ponding of process wastewater and accumulated solids were observed on the north side of field No. 2, adjacent to the disposal valves and pipes.

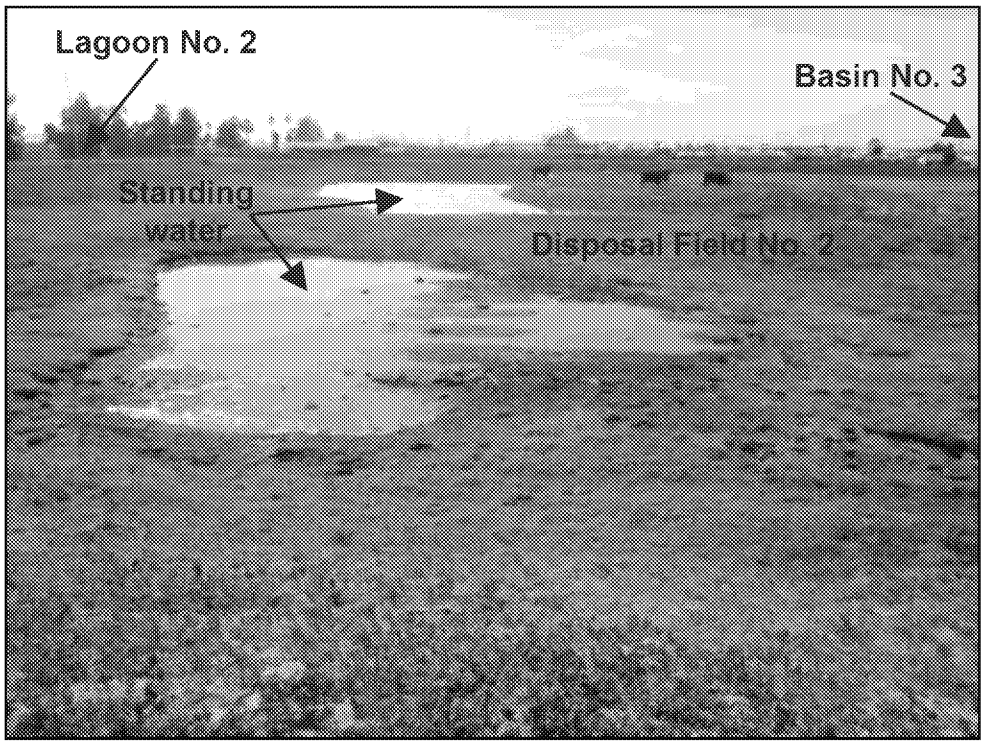
**Photograph 11.** Additional view facing south of disposal field No. 2, shown in Photograph 10.



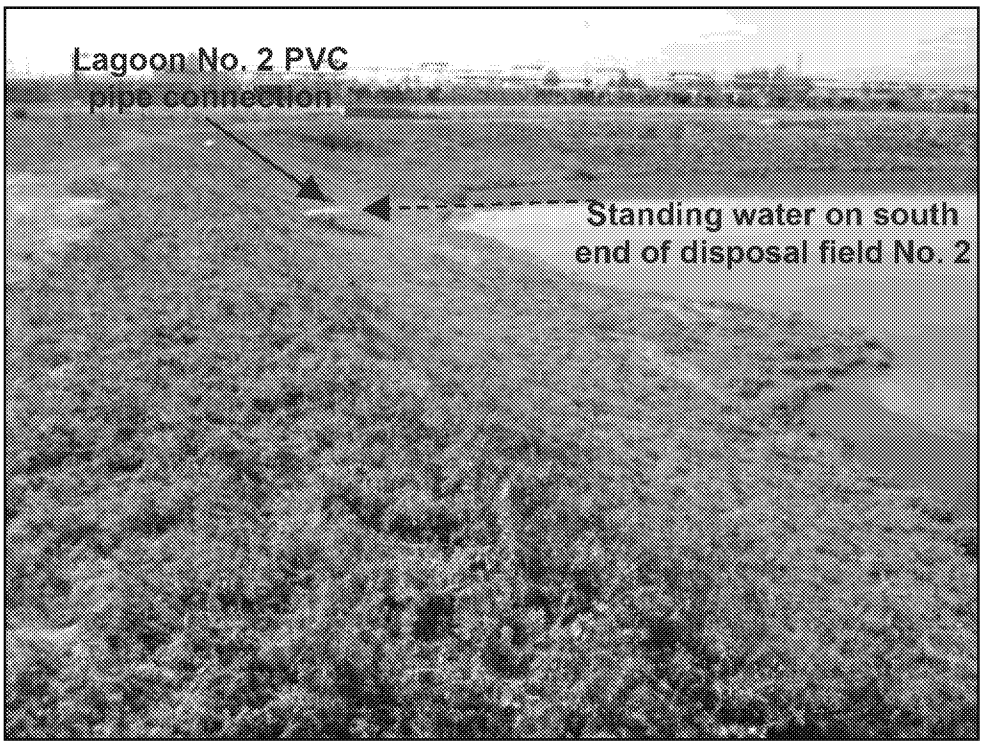

**Photograph 12.** View facing northwest of disposal field No. 2. Note the accumulated solids located in the northeast portion of the field.



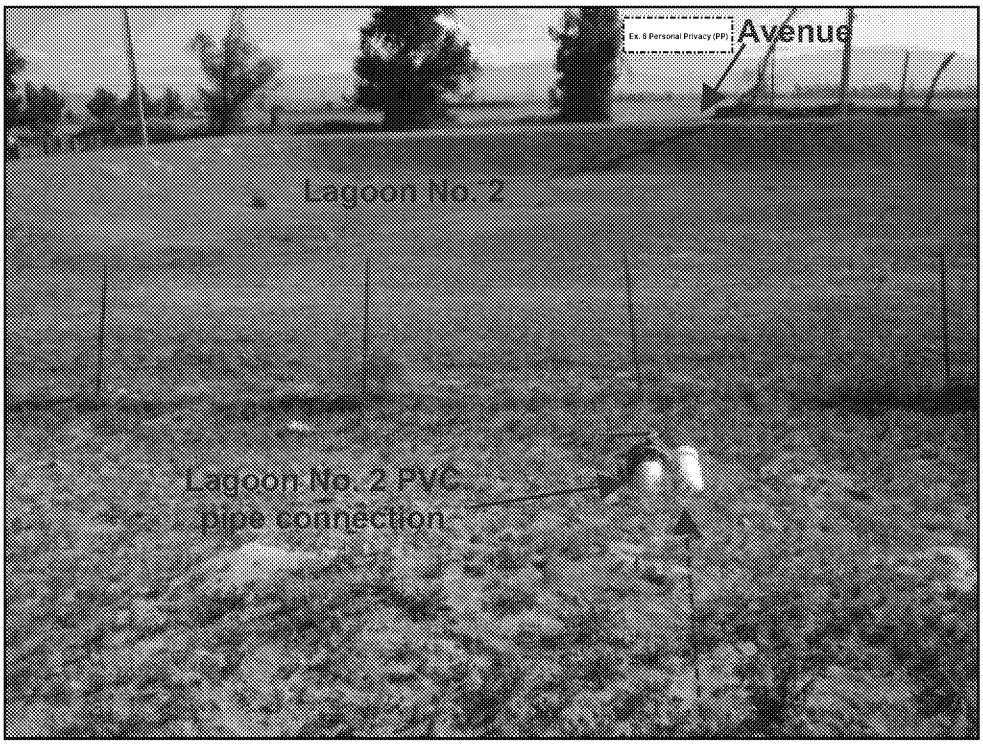

**Photograph 13.** View facing west of accumulated solids in basin No. 3, located on the south side of disposal field No. 2.




**Photograph 14.** View facing west of standing water on the south side of disposal field No. 2, between lagoon No. 2 and basin No. 3.




**Photograph 15.** View facing west of standing water on the south side of disposal field No. 2 and basin No. 3, upgradient of the PVC pipe connection which drains into lagoon No. 2.




**Photograph 16.** View facing south of the PVC pipe outlet from disposal field No. 2, shown in Photograph 15, into lagoon No. 2.

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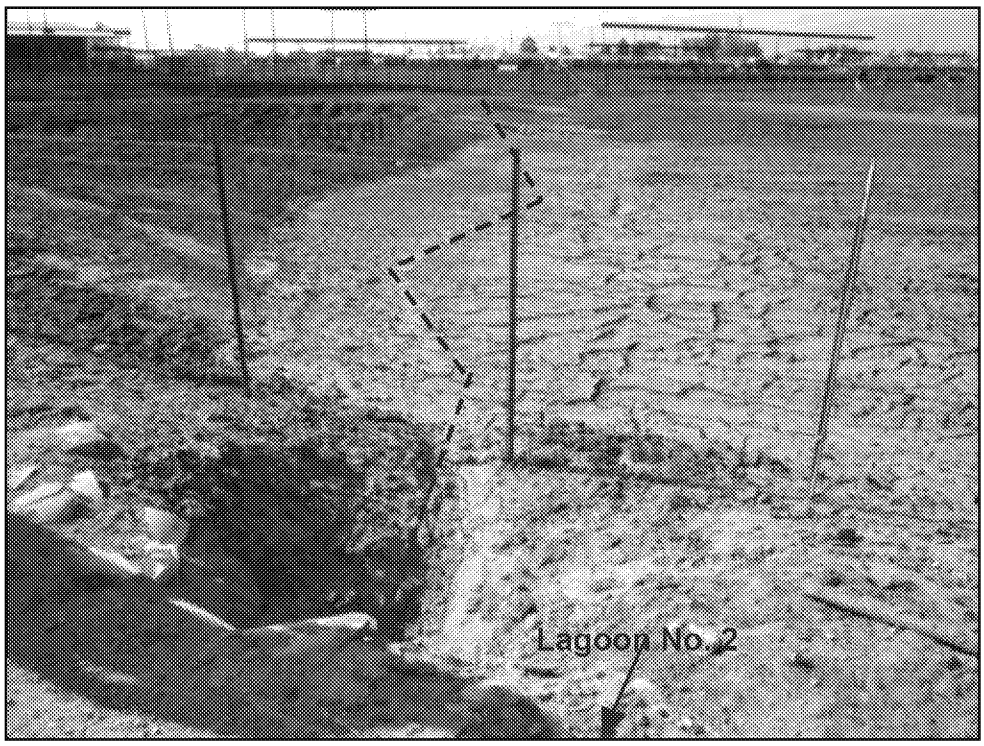
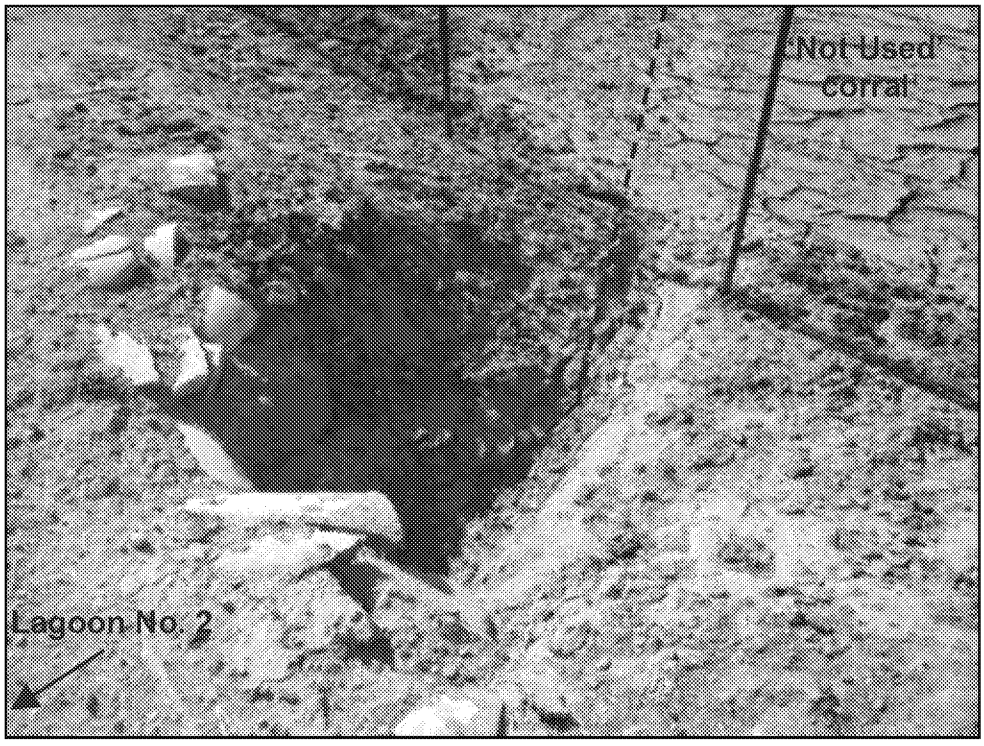



**Photograph 17.** View facing northwest of the 'Not Used' corral, which conveys storm water runoff from the eastern corrals into lagoon No. 2 via a drain pipe.




**Photograph 18.** Close-up view of the storm water runoff drain pipe inlet from the 'Not Used' corral into lagoon No. 2.

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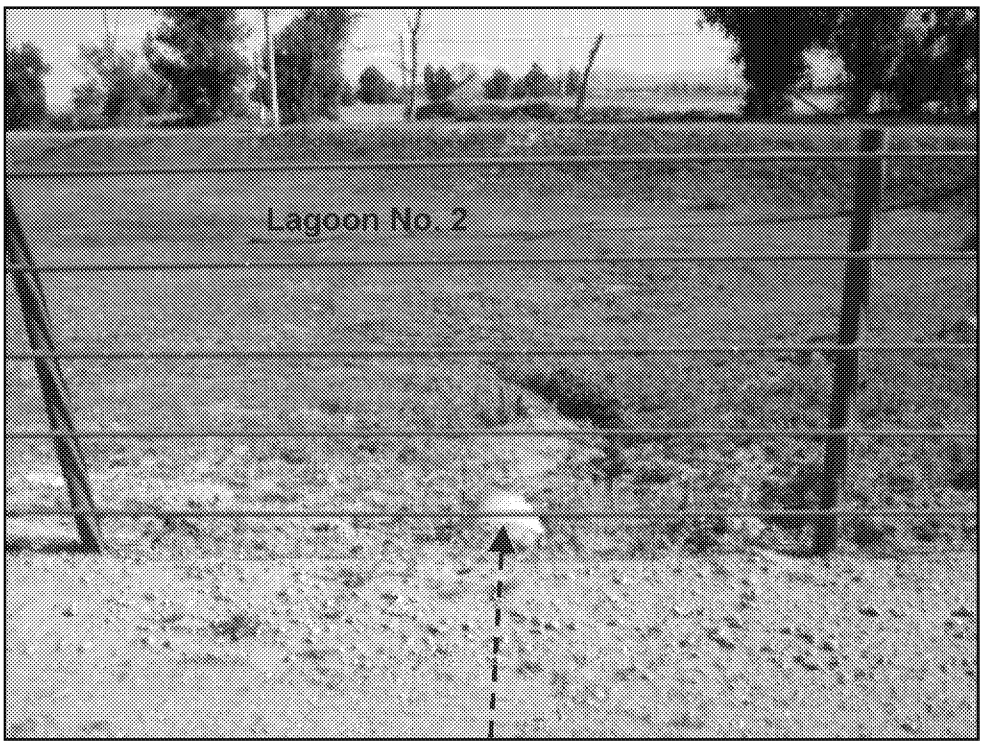
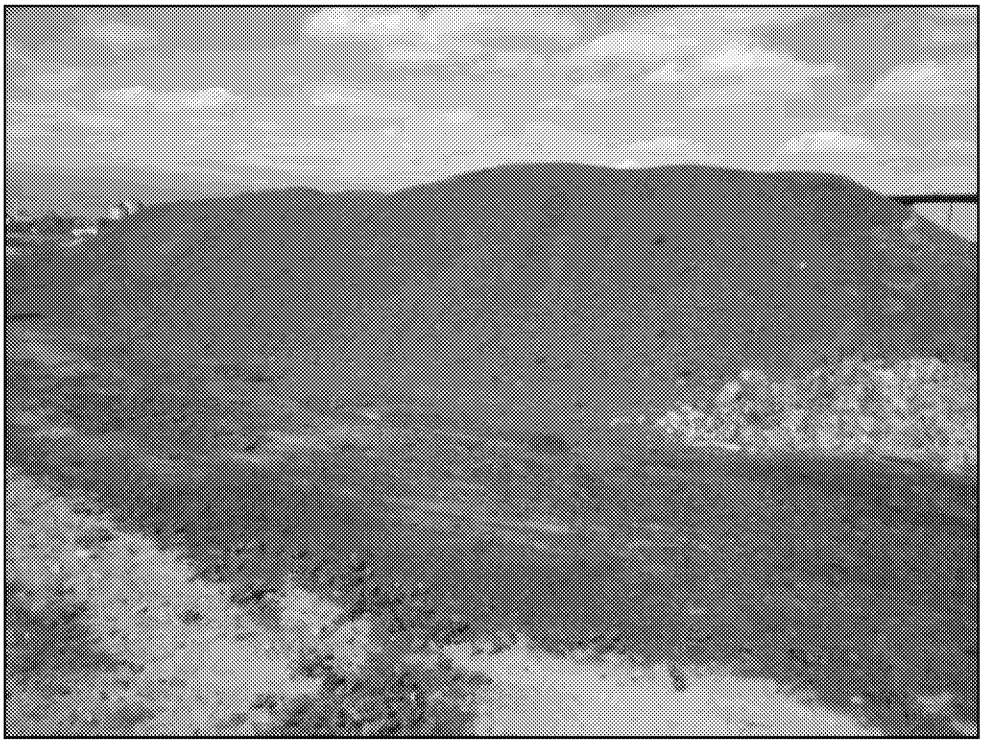



**Photograph 19.** View facing south of the eastern corrals storm water runoff pipe outlet into lagoon No. 2.



**Photograph 20.** View facing northeast of a manure stockpile located on the central-west portion of the Facility, adjacent to disposal field No. 1.